

WHAT IS CLAIMED IS:

1. A recombinant nucleic acid molecule that encodes a fusion polypeptide, the recombinant nucleic acid molecule comprising a Ra12 polynucleotide sequence and a heterologous polynucleotide sequence, wherein the Ra12 polynucleotide sequence hybridizes to SEQ ID NO:3 under stringent conditions.

2. The recombinant nucleic acid molecule according to claim 1, wherein the Ra12 polynucleotide sequence is located 5' to the heterologous polynucleotide sequence.

3. The recombinant nucleic acid molecule according to claim 1, the recombinant nucleic acid molecule further comprising a polynucleotide sequence that encodes a linker peptide between the Ra12 polynucleotide sequence and the heterologous polynucleotide sequence.

4. The recombinant nucleic acid molecule according to claim 3, wherein the linker peptide comprises a cleavage site.

5. The recombinant nucleic acid molecule according to claim 1, wherein the fusion polypeptide further comprises an affinity tag which is linked to the fusion polypeptide.

6. The recombinant nucleic acid molecule according to claim 1, wherein the heterologous nucleic acid sequence encodes a DPPD, a WT1, a mammaglobin, or a H9-32A polypeptide.

7. The recombinant nucleic acid molecule according to claim 1, wherein the Ra12 polynucleotide sequence comprises at least about 30 nucleotides.

8. The recombinant nucleic acid molecule according to claim 1, wherein the Ra12 polynucleotide sequence comprises at least about 60 nucleotides.

9. The recombinant nucleic acid molecule according to claim 1, wherein the Ra12 polynucleotide sequence comprises at least about 100 nucleotides.

10. The recombinant nucleic acid molecule according to claim 1,
wherein the Ra12 polynucleotide sequence encodes a Ra12 polypeptide as shown in SEQ
ID NO:17.

11. The recombinant nucleic acid molecule according to claim 1,
wherein the Ra12 polynucleotide sequence encodes a Ra12 polypeptide as shown in SEQ
ID NO:18.

12. The recombinant nucleic acid molecule according to claim 1,
wherein the Ra12 polynucleotide sequence is as shown in SEQ ID NO:3.

13. The recombinant nucleic acid according to claim 1, wherein the
Ra12 polynucleotide sequence encodes a Ra12 polypeptide as shown in SEQ ID NO:4.

14. An expression vector comprising a promoter operably linked to a
recombinant nucleic acid molecule according to claim 1.

15. A host cell transformed or transfected with an expression vector
according to claim 14.

16. The host cell according to claim 15, wherein the host cell is *E. coli*.

17. A fusion polypeptide comprising a Ra12 polypeptide and a
heterologous polypeptide, wherein the Ra12 polypeptide is encoded by a Ra12
polynucleotide sequence that hybridizes to SEQ ID NO:3 under stringent hybridization
conditions.

18. The fusion polypeptide according to claim 17, wherein the Ra12
polypeptide comprises at least about 10 amino acids.

19. The fusion polypeptide according to claim 17, wherein the Ra12
polypeptide comprises at least about 30 amino acids.

20. The fusion polypeptide according to claim 17, wherein the Ra12
polypeptide comprises at least about 100 amino acids.

21. The fusion polypeptide according to claim 17, wherein the Ra12
polypeptide has a sequence as shown in SEQ ID NO:4.

1 22. The fusion polypeptide according to claim 17, wherein the Ra12
2 polypeptide has a sequence as shown in SEQ ID NO:17.

1 23. The fusion polypeptide according to claim 17, wherein the Ra12
2 polypeptide has a sequence as shown in SEQ ID NO:18.

1 24. The fusion polypeptide of claim 17, the fusion polypeptide further
2 comprising a linker peptide between the Ra12 polypeptide and the heterologous
3 polypeptide.

1 25. The fusion polypeptide of claim 17, wherein the fusion polypeptide
2 further comprises an affinity tag which is linked to the fusion polypeptide.

1 26. The fusion polypeptide of claim 17, wherein the heterologous
2 polypeptide is a DPPD, a WT1, a mammaglobin, or a H9-32A.

1 27. A method of producing a fusion polypeptide, the method
2 comprising expressing in a host cell a recombinant nucleic acid molecule that encodes a
3 fusion polypeptide, the fusion polypeptide comprising a Ra12 polypeptide and a
4 heterologous polypeptide, wherein the Ra12 polypeptide is encoded by a Ra12
5 polynucleotide sequence that hybridizes to SEQ ID NO:3 under stringent conditions.

1 28. The method according to claim 27, wherein the fusion polypeptide
2 further comprises an affinity tag which is linked to the fusion polypeptide.

1 29. The method according to claim 27, wherein the fusion polypeptide
2 is purified from the host cell.

1 30. The method according to claim 27, the method further comprising
2 cleaving the fusion polypeptide between the Ra12 polypeptide and the heterologous
3 polypeptide.

1 31. The method according to claim 27, wherein the host cell is *E. coli*.